

FIGURE 1 (Prior Art)

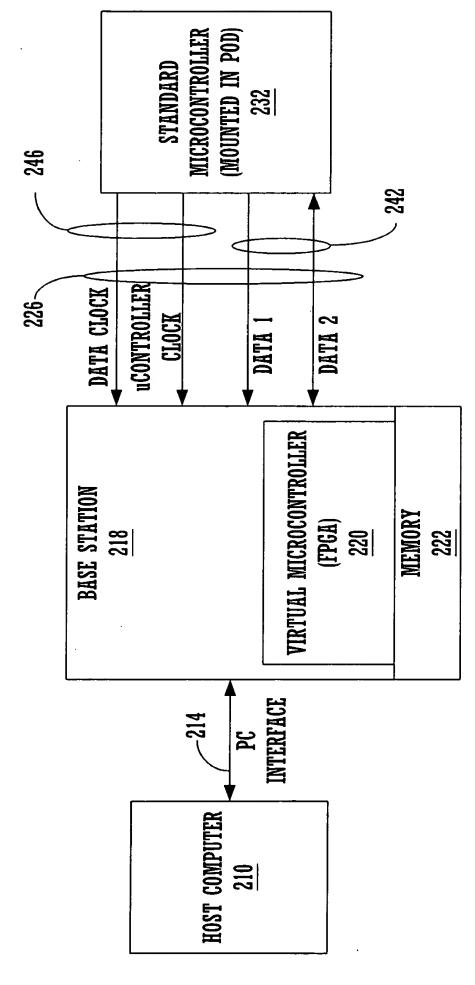


FIGURE 2

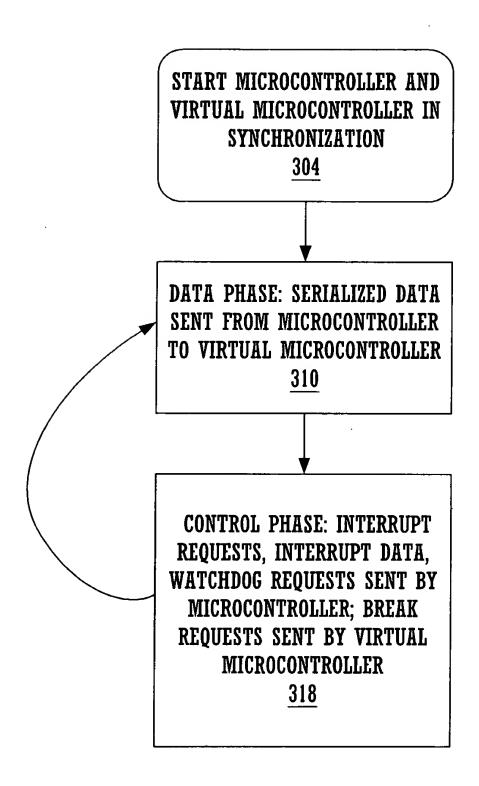


FIGURE 3

START MICROCONTROLLER AND VIRTUAL MICROCONTROLLER IN SYNCHRONIZATION

304

DATA PHASE: RECEIVE
SERIALIZED DATA SENT FROM
MICROCONTROLLER; BEGIN
PROCESSING DATA AS SOON AS
RECEIVED TO CATCH UP WITH
STATE OF MICROCONTROLLER

310

CONTROL PHASE: RECEIVE
INTERRUPT REQUESTS,
INTERRUPT DATA, WATCHDOG
REQUESTS SENT BY
MICROCONTROLLER; COMPLETE
PROCESSING DATA IF REQUIRED
AND ISSUE SIMPLE OR COMPLEX
BREAK REQUESTS IF REQUIRED
318

FIGURE 4

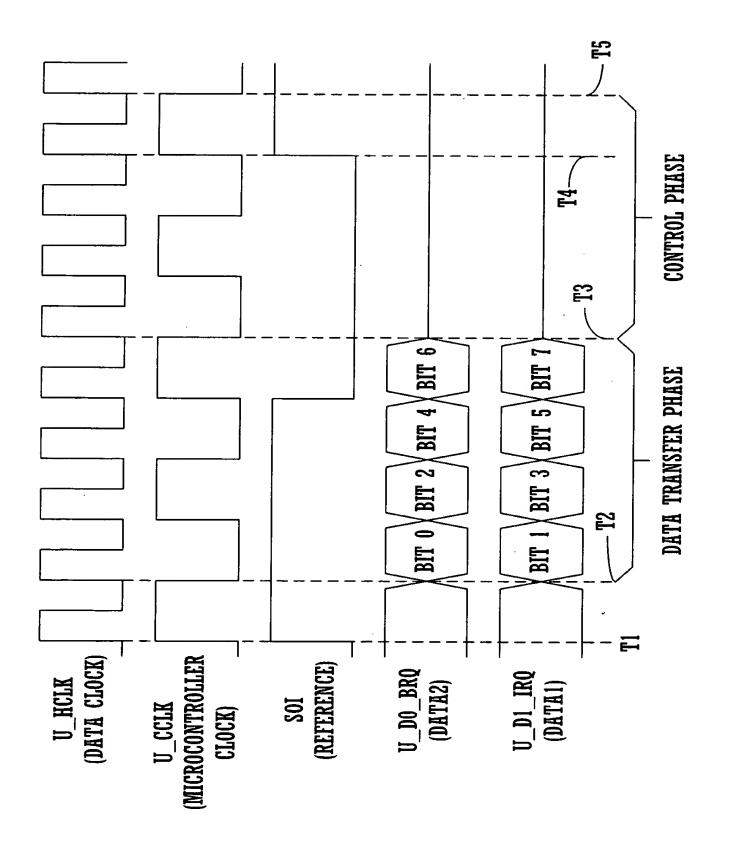


FIGURE 5